In The Claims:

møbile wireless 1 communication system, comprising: 2 3 plurality of individual transponding 4 nodes; a central processing hub in communication 5 said plurality of 6 with each of individual transponding nodes, such that a signal processed by 7 8 central processing hub is radiated compensating time delays to a plurality of 9 said individual transponding nodes; and 10 a plurality of mobile terminals associated 11 with respective remote users for receiving 12 radiated signals from each of said plurality of 13 individual transponding nodes simultaneously. 14 The wireless communication system of 1 claim 1, wherein one or more of said plurality of individual / transponding nodes individual 3 is an satellite. 4 The wireless communication system of 1 claim 1, wherein one or more of said plurality of individua1 transponding nodes is a high altitude 3 platform. 4 The wireless communication system of 1 wherein one or more of said plurality of 2 individual transponding nodes is a transmitter tower.

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The wireless communication system of
1
   claim 1, wherein one or more of said plurality of
2
   individual transponding nodes is a balloon.
3
                  The wireless /communication system of
             6.
                        said / central processing
2
   claim
           1, wherein
   processes said signal such that all intended signals
3
   will arrive in-of-phase for an intended remote user,
4
   and out-of-phase for All other remote users.
5
                  The /wireless communication system of
             7.
1
          1, wherein in a reverse link mode, said
2
   plurality of mobile terminals transmit signals to
3
   said plurality of individual transponding nodes,
4
   which then padiate said signals to said central
5
   processing hyb for processing.
                  A method for communicating with a
1
   mobile hand-held terminal, comprising:
2
3
             processing a local user signal for both
   forward/and return links at a central processing hub;
4
5
             radiating said signal through multiple
   paths/or transponder nodes;
6
             receiving said signals at a plurality of
7
   tramsponding nodes;
8
             re-radiating
9
                            said
                                   signals
                                             from
                                                    said
   plurality of transponding nodes to the mobile hand-
10
   held terminal; and
11
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receiving said forward link signals from

said plurality of transponding nodes at the mobile



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13

hand-held terminal whereby said re-radiated signal will be received coherently only for an intended remote user associated with the mobile hand-held terminal.

1 /9. The method of claim 8, further 2 comprising:

transmitting said return link signals to said plurality of transponding nodes from mobile hand-held terminals whereby signals are processed coherently by the hub processor.

1 10. The method of claim 8, wherein said 2 signals are received by a high altitude platform 3 system.

1 11. The method of claim 10, wherein said 2 signals are received by a plurality of manned or 3 unmanned airships.

1 12. The method of claim 10, wherein said 2 signals are received by a plurality of balloons.

1 13. The method of claim 10, wherein said 2 signals are received by a plurality of manned or 3 unmanned airplanes.

1 14. The method of claim 8, wherein said 2 signals are received by a tower based cellular 3 network.

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The method of claim 8, wherein said
1
             15.
   signals are received by a space based system.
2
                  A mobile wireless communication system
1
   for mobile users, comprising:
2
             a plurality of individual transponder nodes
3
   selected from one or more of the following node
   types: a tower based cellular network,
5
   altitude platform system or a space-based satellite
6
7
   system;
             a central processing hub in communication
8
   with each of said plura/lity of individual transponder
9
   nodes, whereby a signal processed by said central
10
   processing hub is *fadiated with compensating time
11
   delays to said plurality of individual transponders;
12
13
   and
                mob/ile
                         terminal
                                   associated
14
   intended user /for receiving said radiated signals
15
16
   from each of said plurality of individual transponder
   nodes coherently;
17
             whereby said radiated signals, if received
18
   by a non-intended user, are received incoherently.
19
             17.
                  The
                        mobile
                                wireless
                                           communication
1
           bf claim
                      16, wherein
                                     said plurality of
2
   system
   individual transponder nodes
                                    that
                                          radiate
                                                    said
3
   signals to said intended user are all of the same
4
   type.
5
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By

1

2

18.

of

The

claim

mobile

wireless

16, wherein said plurality of

communication

- 3 individual transponder nodes that radiate said
- 4 signals to said intended user are selected from at
- 5 least two of said platforms.